Index of Claims

| App | lica | tion | Con | trol | No. |
|-----|------|------|-----|------|-----|
|-----|------|------|-----|------|-----|

10/822,361

Examiner

Long Pham

Applicant(s)/Patent under Reexamination

KARPOV ET AL.

Art Unit

2814

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| 0 | Objected |

|  |  | L.                                    | L_           |          |          |  | ]         |  | L  | <u> </u>        |  |
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|  |  |                                       |              |          |          |  |           |  |  |                 |  |
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| $\vdash$                                     | 1  | 1                                     | -            | -        | H        | -  | ⊢         | -  |  | Н               |  |
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| $\vdash$                                     | 1<br>2<br>3<br>4<br>5                        | ┪                                     | H            | $\vdash$ | -        |  |           |  | ┢  | Н               |  |
|  | 4  |                                       |              |          |          | Г  |           |  |  | П               |  |
|  | 5  |                                       |              | Г        |          |  |           |  |  |                 |  |
|  | 6<br>7                                       |                                       |              | Γ        | T        |  |           | Г  |  |                 |  |
|  |  |                                       |              |          |          |  |           |  |  |                 |  |
|  | 8  |                                       |              |          |          | l  |           |  |  |                 |  |
|  | 9  |                                       |              |          |          |  |           |  |  |                 |  |
|  | 10   | 0                                     | <u>_</u>     | <u>L</u> |          | <u> </u>   | <u> </u>  | <u> </u>   | <u></u>  | Щ               |  |
|  | 11<br>12<br>13<br>14<br>15                   | V                                     | _            | <u> </u> | _        | <u> </u>   | _         | _  | _  | Щ               |  |
|  | 12   |                                       | _            | <u> </u> | <u> </u> | -  | <u> </u>  | $\vdash$   | $\vdash$   | dash            |  |
|  | 13   | -                                     | _            |          | -        | ├-   | ┝         | -  | ⊢  | Н               |  |
| -  | 15   |                                       | <del> </del> | $\vdash$ | -        | ├  | -         | $\vdash$   | -  | $\vdash \vdash$ |  |
|  | 16   | 1/                                    | _            | -        | $\vdash$ | ├  | $\vdash$  | $\vdash$   | H  | $\vdash$        |  |
|  | 17   | V                                     | -            | _        | ┢        | <del>                                     </del> | -         |  | _  | Н               |  |
|  | 18   | 1                                     |              |          | $\vdash$ |  | $\vdash$  |  |  | Н               |  |
|  | 17<br>18<br>19                               | П                                     |              |          |          |  |           |  | $\vdash$   | П               |  |
|  | 20   |                                       | $\vdash$     |          |          |  |           |  |  |                 |  |
|  | 21   | П                                     |              |          |          |  |           |  |  |                 |  |
|  | 22   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 20<br>21<br>22<br>23<br>24<br>25<br>26<br>27 | Ш                                     |              |          | _        |  | <u> </u>  |  |  | Ш               |  |
|  | 24   | N)_                                   | <u> </u>     |          |          |  | _         |  | <u> </u>   | Ц               |  |
|  | 25   |                                       |              | <u> </u> | <u> </u> |  | _         | <u> </u>   |  | Ш               |  |
|  | 26   | V                                     | <u> </u>     | _        | <u> </u> | _  | _         | _  | _  | Н               |  |
|  | 20   | $\vdash$                              | <u> </u>     | _        | ⊢        | ┝  | <u> </u>  |  | -  |                 |  |
| $\vdash$                                     | 20   |                                       | ┝            | -        | ⊢        | -  | _         | <del>                                     </del> | _  | $\dashv$        |  |
| $\vdash$                                     | 30   |                                       |              | $\vdash$ |          | $\vdash$   |           |  | $\vdash$   | $\dashv$        |  |
| <b> </b>                                     | 28<br>29<br>30<br>31                         |                                       |              | Н        |          | Н  |           |  | <del>                                     </del> | $\vdash$        |  |
| П  | 32   |                                       |              | т        |          | Г  |           | П  | Г  | Н               |  |
|  | 33   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 34   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 35   |                                       |              |          |          |  |           |  |  |                 |  |
| <u>                                     </u> | 36<br>37                                     |                                       | Ш            | L        | _        |  |           | L_   | <u> </u>   | Ш               |  |
| $\sqsubseteq \sqsubseteq$                    | 37   | <u> </u>                              | _            | _        | _        | <u> </u>   |           | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | <u> </u>   | Ш               |  |
| $\vdash \dashv$                              | 38   |                                       |              | L        |          | È  | -         | <u> </u>   | <u> </u>   | Н               |  |
| <del>  </del>                                | 39<br>40                                     | -                                     |              |          |          | -  | -         | $\vdash$   | <u> </u>   | $\vdash \vdash$ |  |
|  | 41   |                                       |              |          |          | _  | -         | -  |  | $\vdash \vdash$ |  |
| $\vdash$                                     | 42   | -                                     |              | -        |          | _  | -         | -  | <del>                                     </del> | $\vdash \vdash$ |  |
|  | 43   | $\vdash$                              | _            | $\vdash$ | -        |  | -         | -  | -  | $\vdash$        |  |
|  | 44   |                                       |              |          | Т        | $\vdash$   |           |  | <u> </u>   | Н               |  |
|  | 45   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 46   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 47   |                                       |              |          |          |  |           |  |  |                 |  |
|  | 48   |                                       |              |          |          | L  |           |  |  | Ш               |  |
| $oxed{oxed}$                                 | 49   |                                       |              | _        |          | <u> </u>   |           | <u>_</u>   | <u> </u>   | Ш               |  |
|  | 50 l   |                                       | 1            | 1        | 1        |  | t I       |  | i .  | . 1             |  |

| Cla      | im       |                |              |  |          | Dat          | е            |          |          |          |   | Cla   | aim      |          |          |          | _[ | Date | € |          |          |          |
|----------|----------|----------------|--------------|--|----------|--------------|--------------|----------|----------|----------|---|-------|----------|----------|----------|----------|----|------|---|----------|----------|----------|
|          | Original | 13/1           | 4            |  |          |              |              |          |          |          |   | Final | Original |          |          |          |    |      |   |          |          |          |
|          | 1        | V              |              |  |          |              |              |          |          |          |   |       | 51       |          |          |          |    |      |   |          |          |          |
|          | 3        | Г              | Τ            | T  |          |              |              | Г        |          |          |   |       | 52       |          |          |          |    |      |   |          |          |          |
| $\Box$   | 3        | Γ              | Т            | Т  |          |              |              |          |          |          |   |       | 53.      |          |          |          |    |      |   |          |          |          |
| $\Box$   | 5        | Г              | Τ            |  | Г        |              |              |          |          |          |   |       | 54       |          |          |          |    |      |   |          |          |          |
| П        | 5        |                | Т            |  | Т        |              |              |          |          |          |   |       | 55       |          |          |          |    |      |   |          |          |          |
|          | 6        |                | Т            |  | T        |              |              | Г        |          |          |   |       | 56       |          |          |          |    |      |   | П        |          |          |
|          | 6<br>7   |                | Т            | 1  | Т        |              |              |          |          |          |   |       | 57       |          |          |          |    |      |   |          |          |          |
|          | 8        |                | Τ            | 1  | Ī        |              | П            |          |          |          |   |       | 58       |          |          |          |    |      |   | Г        |          |          |
|          | 9        |                | Τ            | 1  |          | Г            | Г            | Г        | Π        | Г        | - |       | 59       |          |          |          |    |      |   |          |          | $\Box$   |
|          | 10       | V              | 1            |  |          | П            | Г            |          | Г        | Г        |   |       | 60       |          |          |          |    |      |   |          |          | $\Box$   |
|          | 11       | U              | 1            | T  |          |              |              |          |          |          |   |       | 61       |          |          |          |    |      |   |          |          |          |
|          | 12       | _              | 1            | T  | 1        |              |              |          |          |          |   |       | 62       |          |          |          | ,  |      |   |          |          |          |
|          | 13       |                | 1-           | -  |          |              |              |          |          |          |   |       | 63       |          |          |          | _  |      |   |          | -        |          |
| ┪        | 14       | Т              | t            | †  | T        | $\vdash$     | Т            |          |          |          |   |       | 64       |          |          |          |    |      |   |          |          |          |
|          | 15       | _              | 1            |  | $\vdash$ | Т            |              |          |          |          |   |       | 65       |          |          |          |    |      |   | $\vdash$ |          | $\neg$   |
| ┪        | 16       | $\overline{L}$ | $\succ$      | <del>                                     </del> | T        | Т            |              |          |          | $\vdash$ |   |       | 66       |          |          |          |    |      |   |          | _        | $\dashv$ |
| _        | 17       | ٧              | +            | $\top$   | $\vdash$ | 1            |              | -        |          |          |   |       | 67       |          |          |          |    |      |   |          |          | $\dashv$ |
| 7        | 18       | H              | $\vdash$     | $\top$   | +-       |              | $\vdash$     |          |          |          |   |       | 68       |          |          |          |    |      |   |          |          | ヿ        |
| 7        | 19       | $\dagger$      | t            | +  | t        |              | $\vdash$     |          |          | $\vdash$ |   |       | 69       | _        | $\dashv$ |          | _  |      |   | _        | $\vdash$ | $\dashv$ |
| -        | 20       | ╫              | ╁            | +  | ╁┈       | $\vdash$     | -            |          | H        |          |   |       | 70       |          |          |          |    |      |   |          |          | $\dashv$ |
| ┪        | 21       | ╁              | ╁            | +  | ╁        | ┢            | -            | _        | -        |          |   |       | 71       | $\neg$   | $\neg$   | ᅥ        |    |      | _ | -        |          | $\dashv$ |
| ┪        | 22       | ╁              | ╁            | +  | ╁╌       | -            | -            | $\vdash$ | $\vdash$ | Н        |   |       | 72       | $\dashv$ | $\dashv$ | $\dashv$ |    |      |   |          |          | $\dashv$ |
| ┪        | 23       | H              | ╁            | ╁╌   |          | -            | ┢─           | H        |          |          |   |       | 73       | $\dashv$ |          | $\neg$   |    | _    |   | -        | -        | $\dashv$ |
| ┪        | 24       |                | ╁╴           | +-   | ╁        | ┢            | ├─           | -        | $\vdash$ | Н        |   |       | 74       | $\dashv$ | $\neg$   |          |    |      |   |          |          | $\dashv$ |
| ┥        | 25       | V              | ╁            | ╁╌   | ╁        | -            | ├─           | -        | _        | $\vdash$ |   |       | 75       |          | $\dashv$ |          |    |      | _ | _        |          | $\dashv$ |
| ┪        | 26       | , ,            | ᅪ            | ╁┈   | $\vdash$ | ┢            | ┢            | $\vdash$ | $\vdash$ | $\vdash$ |   |       | 76       |          | $\dashv$ | -        |    |      |   | _        | $\dashv$ | ᅱ        |
| -        | 27       | V              | +            | +  | ⊢        | ┝            | <del> </del> | -        | $\vdash$ |          |   |       | 77       | -        | -        | $\dashv$ |    | -    |   |          | -        | ᅱ        |
| -        | 28       | -              | ╁            | +  | $\vdash$ | ⊢            | <u> </u>     |          | -        |          |   |       | 78       | ╣        |          | $\dashv$ | _  |      | - |          | -        | $\dashv$ |
| $\dashv$ | 29       | -              | ╀            | +-   | -        | ┢            | ┝            | -        | $\vdash$ |          |   | _     | 79       |          | -        | $\dashv$ | _  |      | _ |          | -        | ᅱ        |
| ᅱ        | 30       | -              | ╀            | +  | -        | ⊢            | $\vdash$     | $\vdash$ | $\vdash$ | -        |   |       | 80       | -        | -        | -        |    | -    | _ |          | -        | ᅱ        |
| -        | 31       |                | ⊢            | +  | -        | $\vdash$     | $\vdash$     | -        |          | _        |   |       | 81       | $\dashv$ | $\dashv$ | $\dashv$ | _  |      |   | _        |          | $\dashv$ |
| ┥        | 32       | _              | ╀            | ┿  | -        | <del> </del> |              |          | <u> </u> |          |   |       | 82       | $\dashv$ | -        | $\dashv$ | _  |      |   |          |          |          |
| -        | 32       |                | ⊢            | +  | -        | _            | _            |          | _        |          |   |       | 83       | -        |          |          | _  | -    |   | $\vdash$ | =        | $\dashv$ |
| -        | 33       |                | ⊢            | +  | -        | ⊢            | -            | -        | _        | _        |   |       | 03       | $\dashv$ |          | -        | _  |      |   | _        | $\vdash$ | $\dashv$ |
| ᅱ        | 34<br>35 | -              | ╀            | +  |          | -            |              | _        | -        | Н        |   |       | 84<br>85 | $\dashv$ | $\dashv$ | ᅱ        | _  |      |   | -        | -        |          |
| ᅱ        | 35       |                | ┾            | +-   | ├        | ⊢            |              | _        | _        | _        |   |       |          |          | $\dashv$ | $\dashv$ |    |      |   |          |          | 긕        |
| 4        | 36       | _              | ╀            | +  | ├_       | <u> </u>     | _            | -        | _        | Н        |   |       | 86       | -        | $\dashv$ | $\dashv$ |    | _    |   |          | _        | $\dashv$ |
| 4        | 37       | _              | ╁            | +  | ┢        | -            | $\vdash$     | H        | _        | -        |   | -     | 87       | -        |          |          |    | _    |   |          |          | $\dashv$ |
| 4        | 38       |                | ╀            | +  |          | È            |              | _        |          |          |   |       | 88       |          | -        |          |    |      |   |          |          | $\dashv$ |
| -        | 39       | _              | ╀            | -  | ļ        |              | _            | -        |          | _        |   |       | 89       | $\dashv$ | $\dashv$ | -        |    |      |   | _        | _        |          |
| -1       | 40       |                | ⊢            | +  | -        | _            | _            | _        |          | _        |   |       | 90       |          | _        | _        |    |      |   | _        |          | $\dashv$ |
| 4        | 41       |                | <del> </del> | -  | <u> </u> | _            |              | <u> </u> |          | _        |   |       | 91       | -        | 4        | _        |    |      |   | _        |          |          |
| 4        | 42       | _              | ╁_           | +  |          | <u> </u>     | _            |          | _        |          |   |       | 92       | $\dashv$ | _        | _        |    |      |   |          |          | _        |
| _        | 43       | _              | ╀            | 4  | <u> </u> | <u> </u>     | _            | $\vdash$ | <u> </u> | Ш        |   |       | 93       | _        |          | _        |    |      |   |          |          | _        |
| _        | 44       |                | L            | <del> </del>                                     | ₩        | <u> </u>     | <u> </u>     | _        |          | Щ        |   |       | 94       | _        | _        | _        |    |      |   | Ш        |          | _        |
| _        | 45       |                | ┖            | <u> </u>   | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | <u> </u> | Щ        |   |       | 95       | _        | _        | _        | _  |      |   | Ш        |          | _        |
| _        | 46       |                | <u> </u> _   | 丄  | <u> </u> | <u> </u>     |              |          |          |          |   |       | 96       |          | $\dashv$ | _        |    |      |   | Ш        | Щ        | _        |
| _        | 47       | _              | ┞            | 1_   | <u> </u> | <u> </u>     | Ш            |          | <u> </u> | Ш        |   |       | 97       | _        | _        |          |    | Ш    |   | Ш        | Ш        |          |
| _ļ       | 48       |                | ╙            | $\bot$   | <b> </b> | <u> </u>     | Ш            | <u> </u> | _        | Ш        |   |       | 98       | _        | _        | _        | _  | Ш    |   | Щ        | Щ        |          |
| _        | 49       |                | L            | $\perp$  | _        | <u> </u>     | <u> </u>     | <u> </u> | <u> </u> | Ш        |   |       | 99       |          |          |          |    |      |   | Ш        | Ш        |          |
|          | 50       |                | L            |  | L        |              |              |          | L_       | Ш        |   |       | 100      |          |          |          |    |      |   | Ш        | لـــا    |          |

| Cl    | aim                                    | Date     |                |              |          |          |          |               |          |           |
|-------|--|----------|----------------|--------------|----------|----------|----------|---------------|----------|-----------|
| -     |  |          | Γ_             | T            | т-       | T        |          | $\overline{}$ | Ι.       | П         |
| Final | Original                               |          |                |              |          |          |          |               |          |           |
|       | 101                                    |          |                |              |          |          |          |               |          |           |
|       | 102<br>103                             |          |                |              |          |          | П        |               |          |           |
|       | 103                                    |          |                |              |          |          |          |               |          |           |
|       | 104                                    |          |                |              |          |          |          |               |          |           |
|       | 105                                    |          |                |              |          |          |          |               |          |           |
|       | 106                                    |          |                |              |          |          |          |               |          |           |
|       | 107                                    | _        | $oxed{oxed}$   | _            | _        | L        | _        |               |          | Ш         |
|       | 108                                    |          |                | L            | _        |          |          |               |          |           |
|       | 109                                    |          | <u>_</u>       |              | _        | L        |          | <u> </u>      |          |           |
|       | 110                                    | L_       | _              |              | <u> </u> | L        | L_       | _             | <u> </u> |           |
|       | 111                                    | _        |                | L            |          | L_       |          |               | _        | Ш         |
|       | 112                                    | ļ        | ļ              | <u> </u>     | <u> </u> |          | <u> </u> |               |          |           |
|       | 113                                    | _        |                | <u> </u>     | <u> </u> | <u> </u> | _        | <u> </u>      | _        | Ш         |
| ļ     | 110<br>111<br>112<br>113<br>114<br>115 | <u> </u> | <u> </u>       | <u> </u>     | <b> </b> | <u> </u> | _        |               | _        | Ш         |
|       | 115                                    | <u> </u> | <b></b>        | ļ            | <b> </b> | ⊢        | <u> </u> |               | <u> </u> | $\square$ |
|       | 116                                    | _        | <u> </u>       | <u> </u>     | <u> </u> | $\vdash$ | _        | $\vdash$      | $\vdash$ | Щ         |
|       | 117                                    | _        |                |              | _        | <u> </u> | _        |               |          | Щ         |
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|       | 119                                    |          | _              | _            | <u> </u> | H        |          | $\vdash$      |          | $\dashv$  |
|       | 120                                    | _        | <u> </u>       | <u> </u>     | <u> </u> | _        | <u> </u> | <u> </u>      | _        | Н         |
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|       | 122                                    | $\vdash$ | $\vdash$       |              |          |          | _        | -             |          | Н         |
|       | 123                                    | -        | $\vdash$       |              |          | $\vdash$ |          | $\vdash$      |          | Н         |
|       | 123<br>124<br>125                      | _        | <del> </del>   | _            | -        |          | _        | -             |          | $\dashv$  |
|       | 126                                    | -        | ┝              |              |          | -        |          | _             | _        | -         |
|       | 126<br>127                             |          | <del> </del>   | <del> </del> | _        | $\vdash$ | _        | _             | -        | $\dashv$  |
|       | 128                                    | -        |                |              |          |          | $\vdash$ | -             |          | $\dashv$  |
|       | 129                                    | _        | <del>  -</del> |              |          | $\vdash$ | -        |               | _        | Н         |
|       | 129<br>130                             |          | _              | _            | _        |          |          | _             | _        | $\vdash$  |
|       | 131                                    | -        | $\vdash$       |              |          | $\vdash$ | -        |               |          | Н         |
| -     | 132                                    |          | $\vdash$       |              |          |          | _        |               | $\Box$   | Н         |
|       | 132<br>133                             |          |                |              |          |          |          |               |          | П         |
|       | 134                                    |          | Г              |              |          |          |          |               |          |           |
|       | 135                                    |          |                |              |          |          |          |               |          | П         |
|       | 136                                    |          |                |              |          |          |          |               |          |           |
|       | 137<br>138                             |          |                |              |          |          |          |               |          |           |
|       | 138                                    |          |                |              |          |          |          |               |          |           |
|       | 139                                    |          | Ĺ.             |              |          |          |          |               |          |           |
|       | 140                                    |          |                |              |          | _        |          |               |          | Ш         |
|       | 141                                    |          | _              | L_           | L        | _        |          |               |          | Ш         |
|       | 142                                    |          | <u> </u>       | <u> </u>     |          | _        | <u> </u> |               | L.,      | Щ         |
|       | 143                                    |          |                | <u> </u>     |          |          | <u> </u> | L.            | <u> </u> | Ш         |
|       | 144                                    |          | _              |              | <u> </u> | <u> </u> |          | _             |          | Ш         |
|       | 145                                    |          |                | <u> </u>     | _        |          | <u> </u> |               | <u> </u> | $\sqcup$  |
|       | 146                                    |          | <u> </u>       | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | -             | <u> </u> | $\sqcup$  |
|       | 147                                    |          |                | <u> </u>     | <u> </u> | $\vdash$ | <u> </u> | $\vdash$      | -        | Щ         |
|       | 148                                    | _        | <u> </u>       | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | $\vdash$      | $\vdash$ | Н         |
|       | 149                                    | -        | <del> </del> — | ├            | ├-       | -        | -        | $\vdash$      | $\vdash$ | $\vdash$  |
|       | 150                                    |          |                | L_           | L        | L        | l        | <u>.</u> .    |          | Ш         |